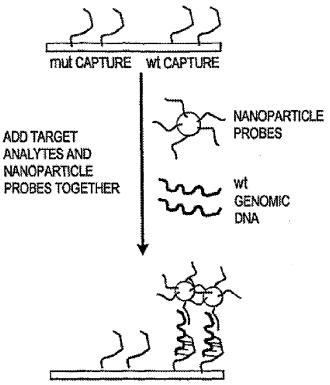
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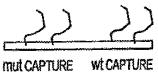
FIG. 1



SPECIFIC BINDING OF NANOPARTICLE PROBES TO WI CAPTURE PROBES VIA WI TARGET ANALYTE IN A SANDWICH FORMAT

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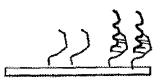
FIG. 2



Wt CAPTURE



HYBRIDIZE WIDNA TO **CAPTURE PROBES** UNDER HIGH STRINGENCY



CAPTURE OF WITARGET ANALYTES BY WI CAPTURE PROBES ONLY

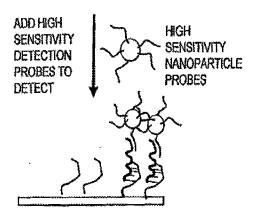
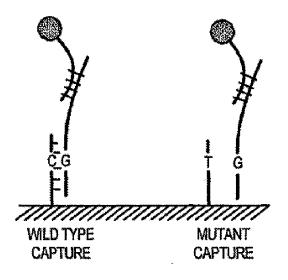


FIG. 3

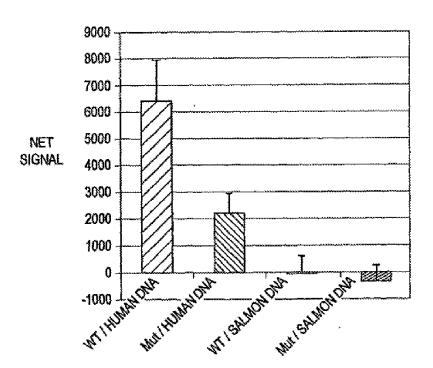


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FIG. 4A 10ug OF NORMAL HUMAN GENOMIC DNA WT

FIG. 4B 10ug OF SALMON SPERM DNA WT

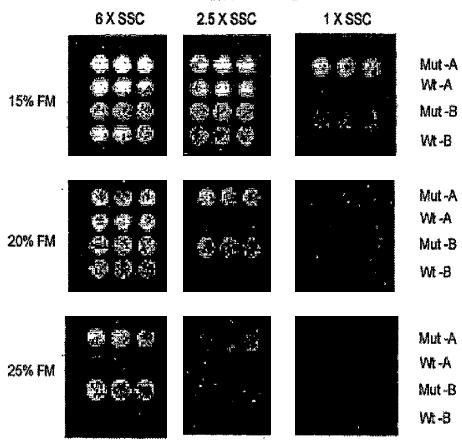
FIG. 4C



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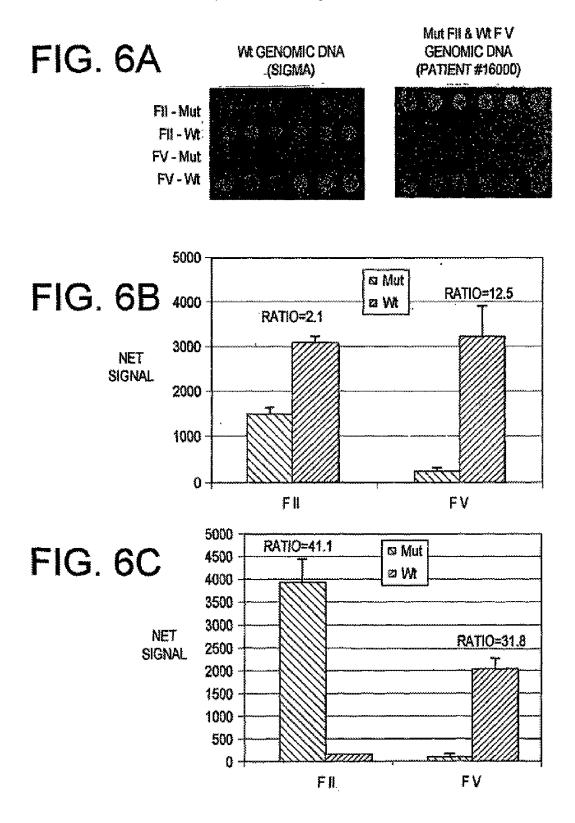
FIG. 5

SALT CONCENTRATION



FORMAMIDE CONCENTRATION

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FIG. 7A

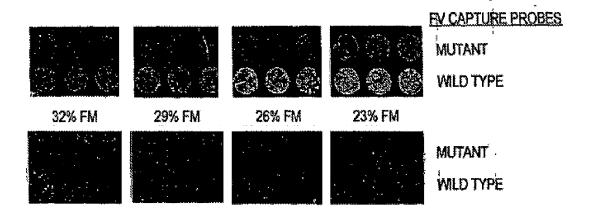
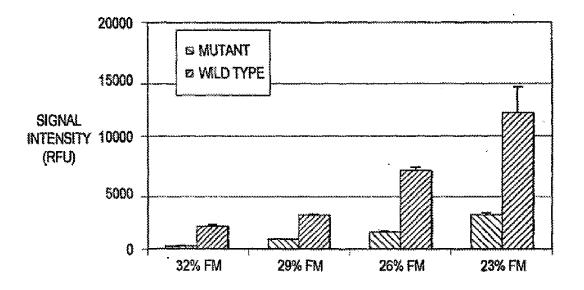
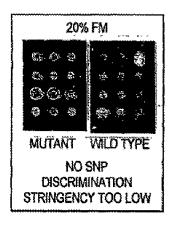


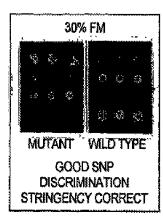
FIG. 7B

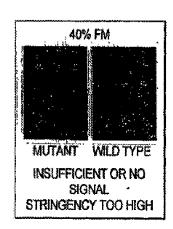


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FIG. 8



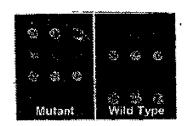




FV CAPTURE PROBE Mut - 26mer Wt - 24mer Mut - 21mer Wt - 20mer

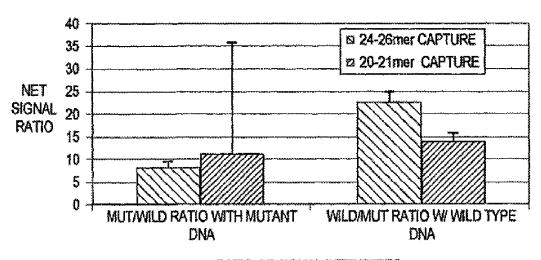
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FIG. 9A



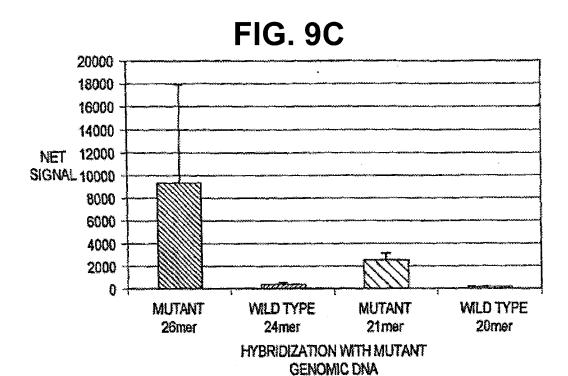
MUTANT 26mer
WILD TYPE 24mer
MUTANT 21mer
WILD TYPE 20mer

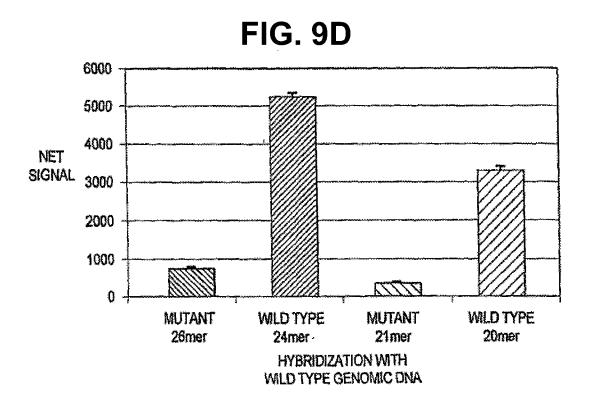
FIG. 9B



RATIO OF SIGNAL INTENSITIES

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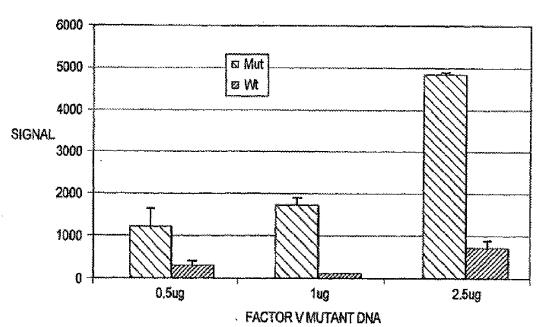
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FIG. 10A



IMAGES OF FAC. V ARRAY HYBRIDIZED WITH MUTANT GENOMIC DNA.

FIG. 10B



SIGNAL INTENSITIES FOR MUTANT (26mer) AND WILD TYPE (24mer) CAPTURE PROBES

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FIG. 11A

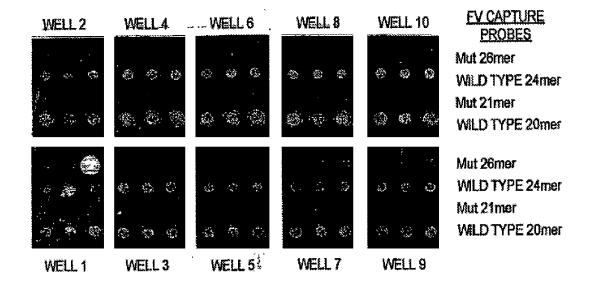
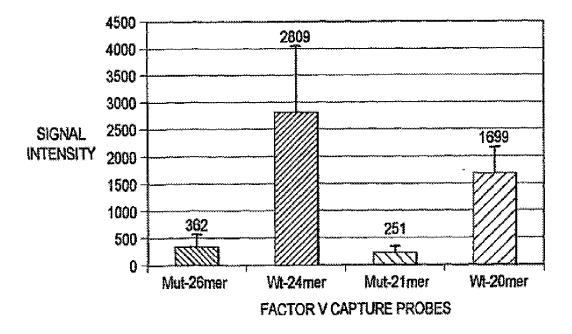


FIG. 11B



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FIG. 12A

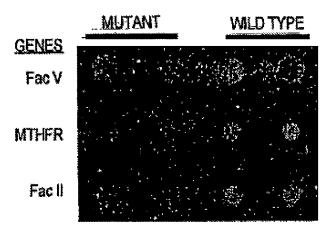
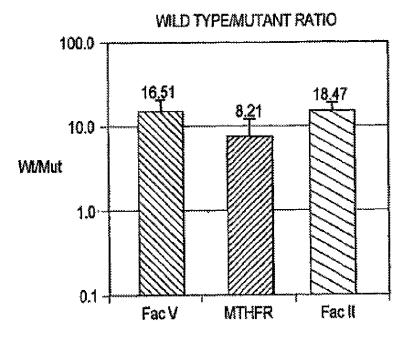


FIG. 12B



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FIG. 13A

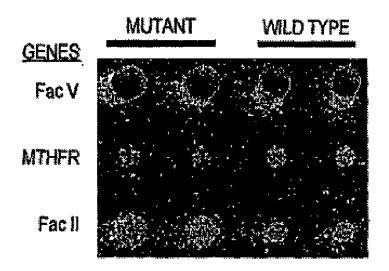


FIG. 13B

100.0

100.0

100.0

100.0

1.09

1.09

0.1

Fac V MTHER Fac II

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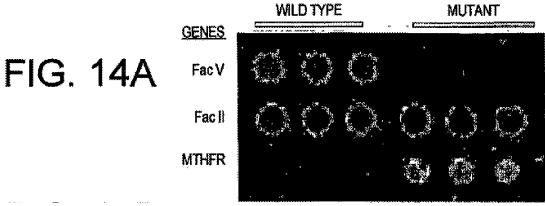


FIG. 14B

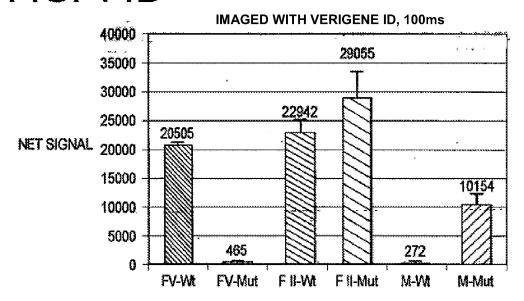
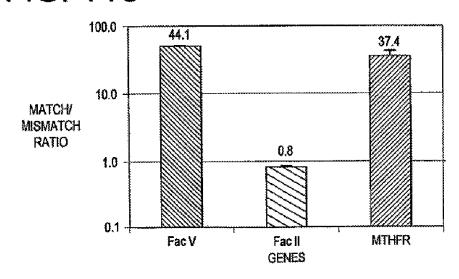


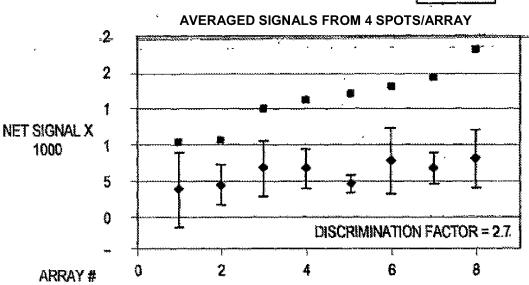
FIG. 14C

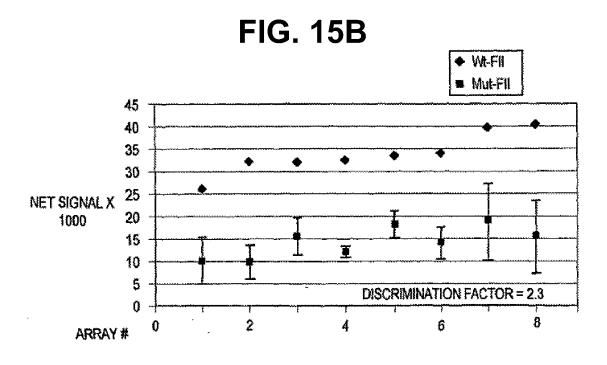


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FIG. 15A



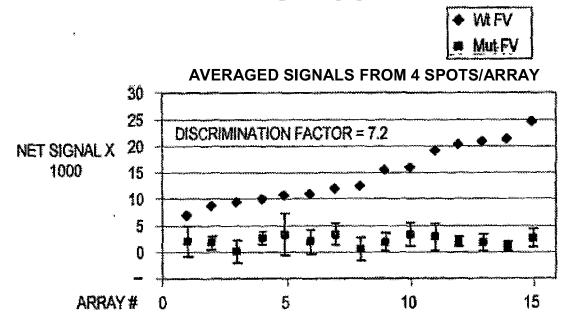


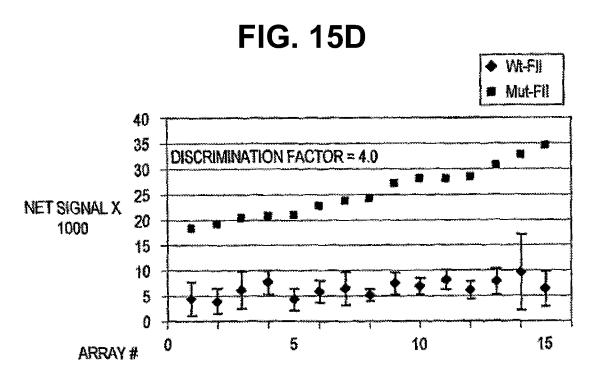


DIRECT SNP DETECTION WITH UNAMPLIFIED DNA Application No.: 10/735,357

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FIG. 15C





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FIG. 16A

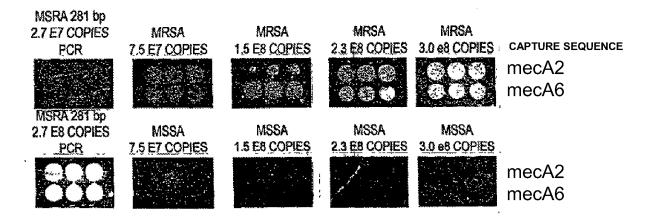
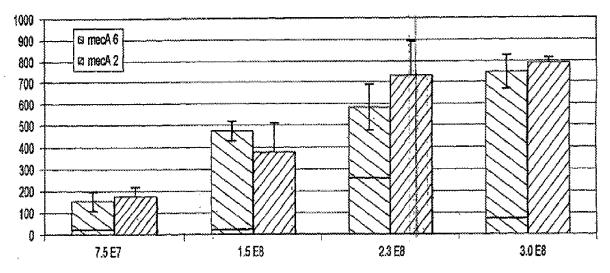


FIG. 16B



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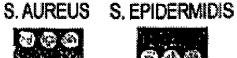
FIG. 17A

SAMPLE

TARGET COPY

3.0E + 7Tuf 372





CAPTURE SEQUENCES

★ Tuf3 = S. AUREUS

★ Tuf4 = S. EPIDERMIDIS





Tuf3 = S. AUREUS

← Tuf4 = S. EPIDERMIDIS



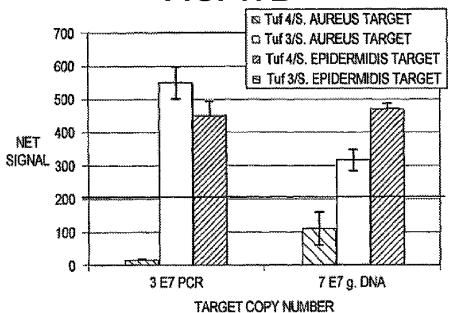




★■ Tuf3 = S. AUREUS

★ Tuf4 = S. EPIDERMIDIS

FIG. 17B



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FIG. 17C

SAMPLE

TARGET COPY S. AUREUS S. EPIDERMIDIS CAPTURE SEQUENCES

3.0 E + 7 Tuf 372





Tuf5 = S. AUREUS

← Tuf6 = S. EPIDERMIDIS

NO





← Tuf5 = S. AUREUS

★ Tuf6 = S. EPIDERMIDIS

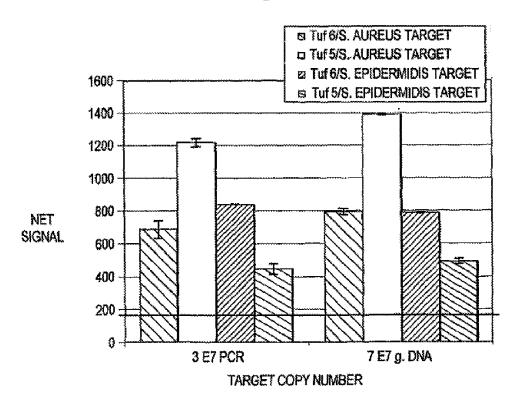
8.0 E + 7 GENOMIC





← Tuf5 = S. AUREUS

FIG. 17D



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FIG. 19A

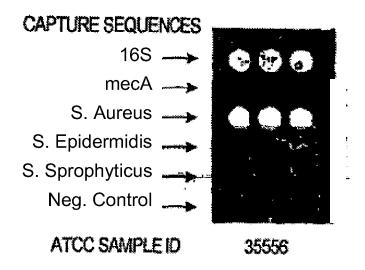
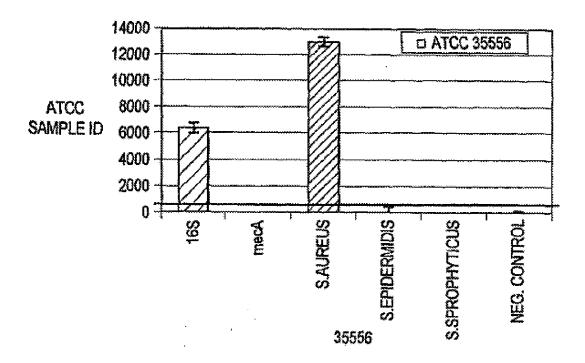


FIG. 19B



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FIG. 19C

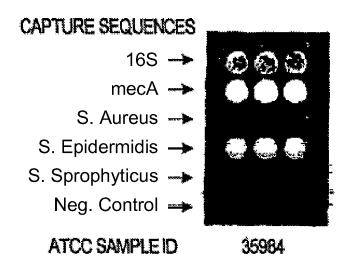
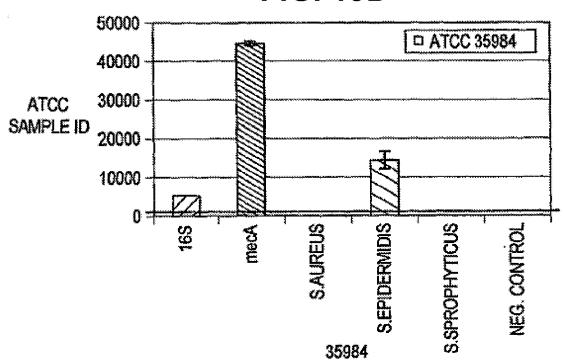


FIG. 19D



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FIG. 19E

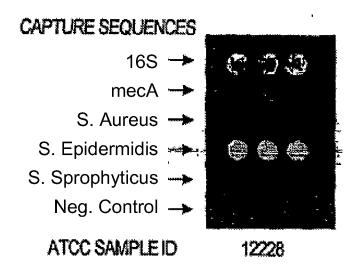
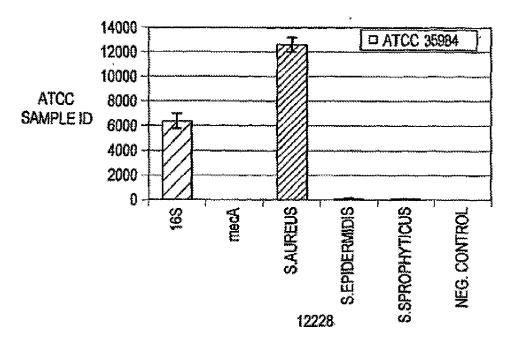


FIG. 19F



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FIG. 19G

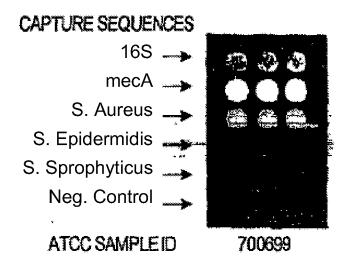
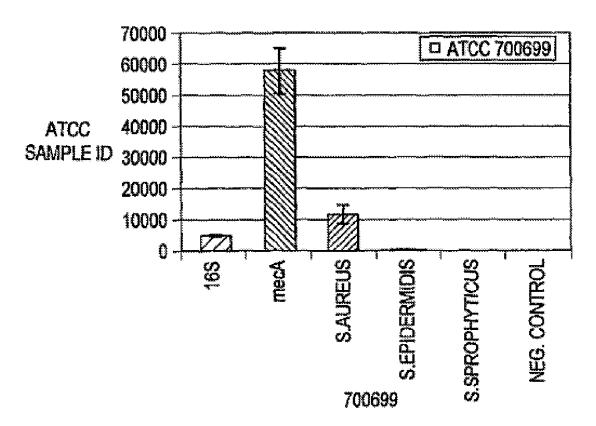


FIG. 19H



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FIG. 191

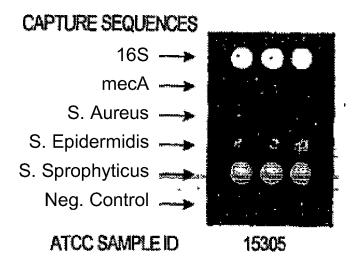
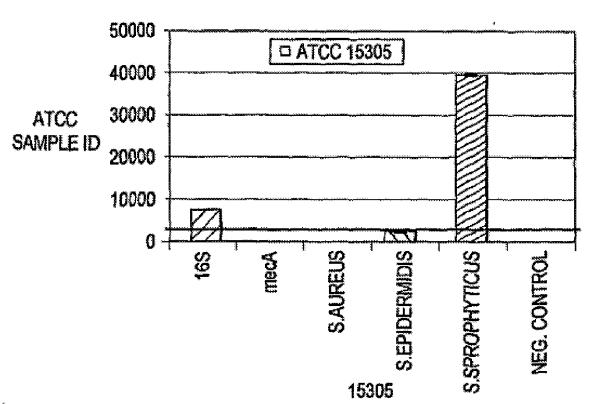
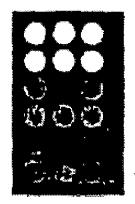


FIG. 19J



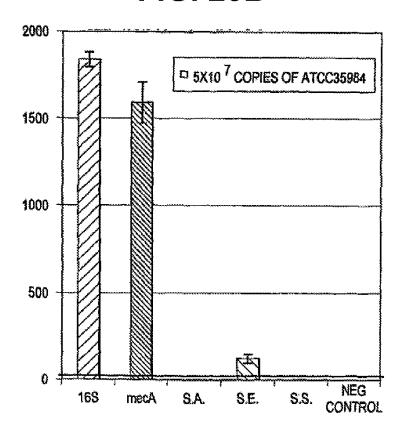
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FIG. 20A



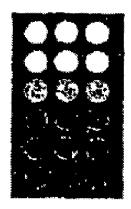
ATCC 35884

FIG. 20B



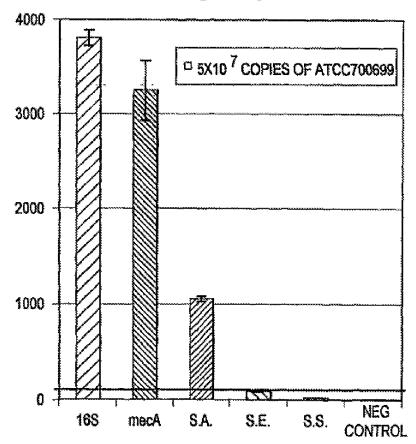
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FIG. 20C



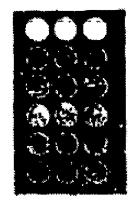
ATCC 700699

FIG. 20D



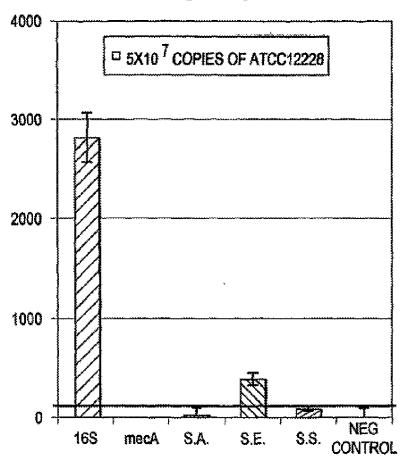
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FIG. 20E



ATCC 12228

FIG. 20F



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FIG. 21

